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File: USPT

Apr 25, 1978

DOCUMENT-IDENTIFIER: US 4086294 A

TITLE: Polycaprolactone-epoxide adducts and coating compositions thereof

Detailed Description Text (19):

The water soluble polycaprolactone-epoxide derivatives or adducts prepared above can be used to produce coating compositions. They can also be modified in known manner by the addition of pigments, fillers and other additives conventionally added to coating compositions. In any instance they are applied to a surface by conventional means and then thermally cured either alone or in the presence of a crosslinker. It is preferred, however to have a crosslinker present and in the such instances the known catalyst for expediting the crosslinking reaction are generally added. The particular pigment or colorants added to the coating compositions are immaterial and any of the known conventional ones can be used. The amount of crosslinker present in the coating composition can vary from 25 to 200 weight percent preferably 50 to 100 weight percent, based on the weight of the water soluble polycaprolactone-epoxide adduct. Among the suitable crosslinkers are the urea formaldehyde aminoplasts, the hexamethoxymethyl melamines, and the known water dispersible transesters thereof with lower alkanols, benzoguanamine, acrylamide resins, as well as any of the other well known crosslinkers of the amine type.

Current US Cross Reference Classification (2):528/354Current US Cross Reference Classification (3):528/365Current US Cross Reference Classification (4):528/418

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<u>L7</u>	L1 and 528/\$.ccls	0	<u>L7</u>
<u>L6</u>	L5 and ((528/\$)!.CCLS.)	12	<u>L6</u>
<u>L5</u>	L1 same polyether	62	<u>L5</u>
<u>L4</u>	L1 same copolymer	90	<u>L4</u>
<u>L3</u>	l1 same (degradable or hydroly\$)	9	<u>L3</u>
<u>L2</u>	L1 and ((149/\$)!.CCLS.)	4	<u>L2</u>
<u>L1</u>	polycaprolactone same (formal or formaldehyde or trioxane)	193	<u>L1</u>

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